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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/902,804	07/12/2001	Erik Walles	2380-380	6649
7:	590 12/15/2004		EXAMINER	
NIXON & VANDERHYE P.C.			LEE, ANDREW CHUNG CHEUNG	
8th Floor 1100 North Glebe Road		ART UNIT	PAPER NUMBER	
Arlington, VA 22201			2664	· · · ·

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/902,804	WALLES, ERIK				
Office Action Summary	Examiner	Art Unit				
·	Andrew C Lee	2664				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•					
1)⊠ Responsive to communication(s) filed on <u>09-2</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowal closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
 4) Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-19 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposition and accomposition and accomposition and accomposition and accomposition and accomposition are declaration in the second accomposition and accomposition are declaration as a second accomposition and accomposition are declaration as a second accomposition and accomposition are declaration as a second accomposition ac	epted or b) \square objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date <u>Mar 19, 2002</u>.

1) X Notice of References Cited (PTO-892)

4) Interview Summary (PTO-413)	
Paper No(s)/Mail Date	
5) Notice of Informal Patent Application (PTO-152)	
6) Other:	

Attachment(s)

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DETAILED ACTION

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Drawings

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: Fig. 5A (drawing 6/9) and Fig. 5B (drawing 7/9), the referenced legends TPE – TPB and TQB – TQA, respectively. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

- 2. The disclosure is objected to because of the following informalities:
 - Page 6, line 24, the element "node 20" is incorrect. It should be "node 20".
 - Page 8, line 24, the element "a delay T6" should be "a delay T7" according to the
 Fig. 3 as disclosed.
 - Page 10, line 14, the element "time 14b" is incorrect. It should be "time T14b".
 - Fig. 4, the reference element "T17" is missing.

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Fig. 5A, Fig. 5B, the referenced elements "PROCESS TIME=TPE -TPB" and
QUEUE TIME=TQB -TQA" should be corrected as "PROCESS TIME=T_{PE} -T_{PB}"
and QUEUE TIME=T_{QB} -T_{QA} ".

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- Fig. 5A, the dotted lines connecting referenced element 61 "supervisory process" and 64 "return switch monitor packet"; referenced element 61 "supervisory process" and 62 "packet queuing"; referenced element 61 "supervisory process" and 60 "media stream processing function"; referenced element 61 "supervisory process" and 63 "performance monitoring process"; referenced element 61 "supervisory process" and 65 "packet discharge" are indicated but not labeled in the figures and not described in the specification.
- Fig. 5B, the arrowed lines connecting referenced elements 83 "stream generator" and 84 "stream grouping", referenced elements 81 "switch monitor packet generator" and 86 "switch delay calculator" are indicated but not labeled in the figures and not described in the specification.
- There are some discrepancies on Claims 11, 12, 13, 14, 18 and 19. There is insufficient antecedent basis for this limitation in the claims.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 11, 12, 13, 14, 18 and 19 recite the limitation "The method of claim 9" in line 1 of claims 11, 12, 13, 14 on page 22 and line 1 of claims 18 and 19 on page 23, respectively. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

- 4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

 A person shall be entitled to a patent unless
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1 – 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Radha et al. (U.S. Patent No. 6700893 B1).

Regarding Claims 1, 10 Radha et al. disclose the limitation of a node of a packet switching network which handles a media stream of packets (Fig. 1, column 5, lines 15 – 17), the node comprising: a processing chain comprising plural processing units through which a packet of the media stream is routed (column 3, lines 17 - 21), each of the plural processing units generating an intra-node performance monitoring packet which includes an indication of time spent by the packet of the media stream in the respective processing unit (column 7, lines 66 – 67; column 8, lines 1 – 9); a performance monitoring unit (Fig. 1, element 138) which receives the intra-node

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performance monitoring packets generated by the respective plural processing units and which uses contents of the intra-node performance monitoring packets to provide an indication of delay in the node for the media stream (Fig. 1, element 138; column 5, lines 66 – 67; column 6, line 1).

Regarding Claims 2, 11, Radha et al. disclose the limitation of a node of claimed wherein the performance monitoring unit uses the contents of the intra-node performance monitoring packets to determine an overall delay of the packet of the media stream through the plural processing units of the node (column 8, lines 21 – 26; column 16, claim 3).

Regarding Claims 3, 12, Radha et al. disclose the limitation of a node of claimed wherein at least one of the plural processing units has an associated queue (column 7, lines 54 – 56), and wherein the intra-node performance monitoring packet generated by the at least one of the plural processing units with the associated queue includes a first component and a second component of the of the time spent by the packet of the media stream in the at least one of the plural processing units with the associated queue (column 7, lines 66 – 67; column 8, line 1), the first component being a delay experienced by the packet of the media stream attributable to processing performed by the at least one processing units with the associated queue (column 8, lines 4 – 9; lines 13 – 14), the second component being a delay experienced by the packet of the media

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stream attributable to the associated queue (column 8, lines 15 – 16; column 16, claim 1, lines 38 - 51).

Regarding Claims 4, 14, Radha et al. disclose the limitation of a node of claimed wherein the performance monitoring unit acquires a time required for the packet of the media stream to travel between a first processing unit and a second processing unit (column 3, lines 17 – 21; column 8, lines 27 – 32).

Regarding Claims 5, 13, 15, Radha et al. disclose the limitation of a node of claimed wherein the performance monitoring unit estimates the time required for the packet of the media stream to travel between a first processing unit and a second processing unit with reference to an inter-unit delay monitor packet generated by the performance monitoring unit (column 3, lines 17 – 21; column 8, lines 21 – 32; column 18, claim 25, lines 55 – 56).

Regarding Claims 6, 7, 16, 17, Radha et al. disclose the limitation of a node of claimed, further comprising a switch which interconnects the processing units and the performance monitoring unit (Fig. 1, element 120), wherein the inter-unit delay monitor packet is a switch-monitor packet (column 7, lines 47 – 49), and wherein the performance monitoring unit determines a time required for the switch-monitoring packet to travel between the performance monitoring unit and a selected one of the plural processing units (column 7, lines 31 – 36).

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Regarding claims 8, 18, Radha et al. disclose the limitation of a node of claimed wherein the performance monitoring unit estimates the time required for the packet of the media stream to travel between a first processing unit and a second processing unit by (1) determining a difference between an arrival time at the performance monitoring unit of an intra-node performance monitoring packet from the second processing unit and an arrival time at the performance monitoring unit of an intra-node performance monitoring unit of an intra-node performance monitoring packet from the first processing unit (column 8, lines 27 – 32), and (2) adding a time delay in the first processing unit to the difference (1) (column 8, lines 40 – 50).

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Regarding Claims 9, 19, Radha et al. disclose the limitation of a node of claimed each of the plural processing units handles plural media streams (column 8, lines 2 - 9), and wherein the performance monitoring unit provides an indication of delay in the node for each of the plural media streams (column 7, lines 55 - 61).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C Lee whose telephone number is (571) 272-3131. The examiner can normally be reached on Monday through Friday from 8:30am - 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on (571) 272-3134. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ACL 07 Dec 2004

Ajir Patel Primary Examiner